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Nonstructural - Flood Proofing
National Nonstructural / Flood Proofing Committee

Virgin River and Tributaries
Utah, Arizona, and Nevada

Floodplain Management Strategy

PCoP National Conference
San Antonio, TX
May 22, 2008

Virgin River and Tributaries – UT, AZ, & NV
Floodplain Management Strategy

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PRESENTATION OUTLINE

- ✓ Watershed Overview
- ✓ Problems and Needs
- ✓ Floodplain Management Strategy
- ✓ Mitigation Actions
- ✓ Implementation
- ✓ Take Aways

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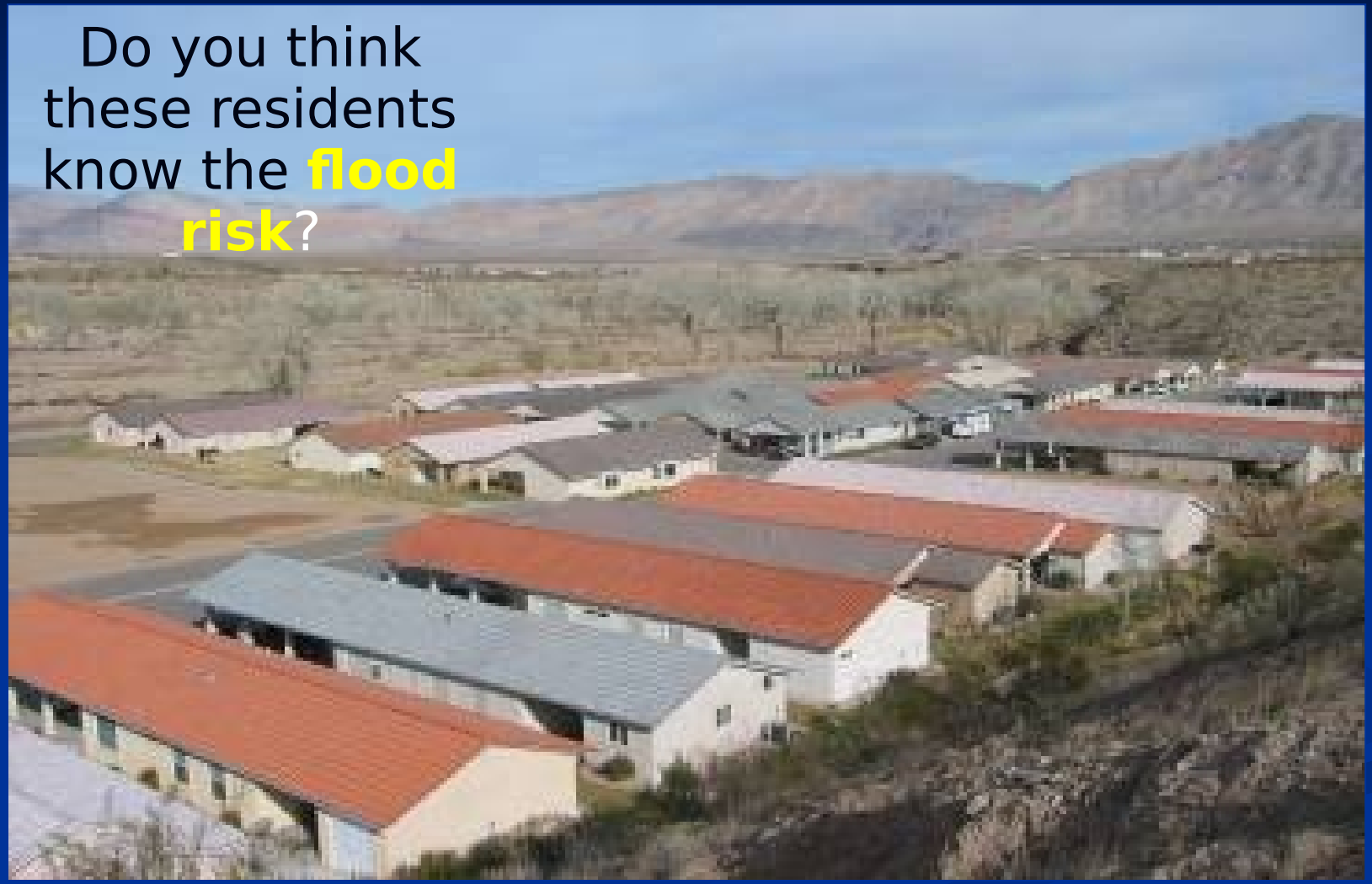

Beaver Dam Wash, AZ - 2006

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Watershed Study

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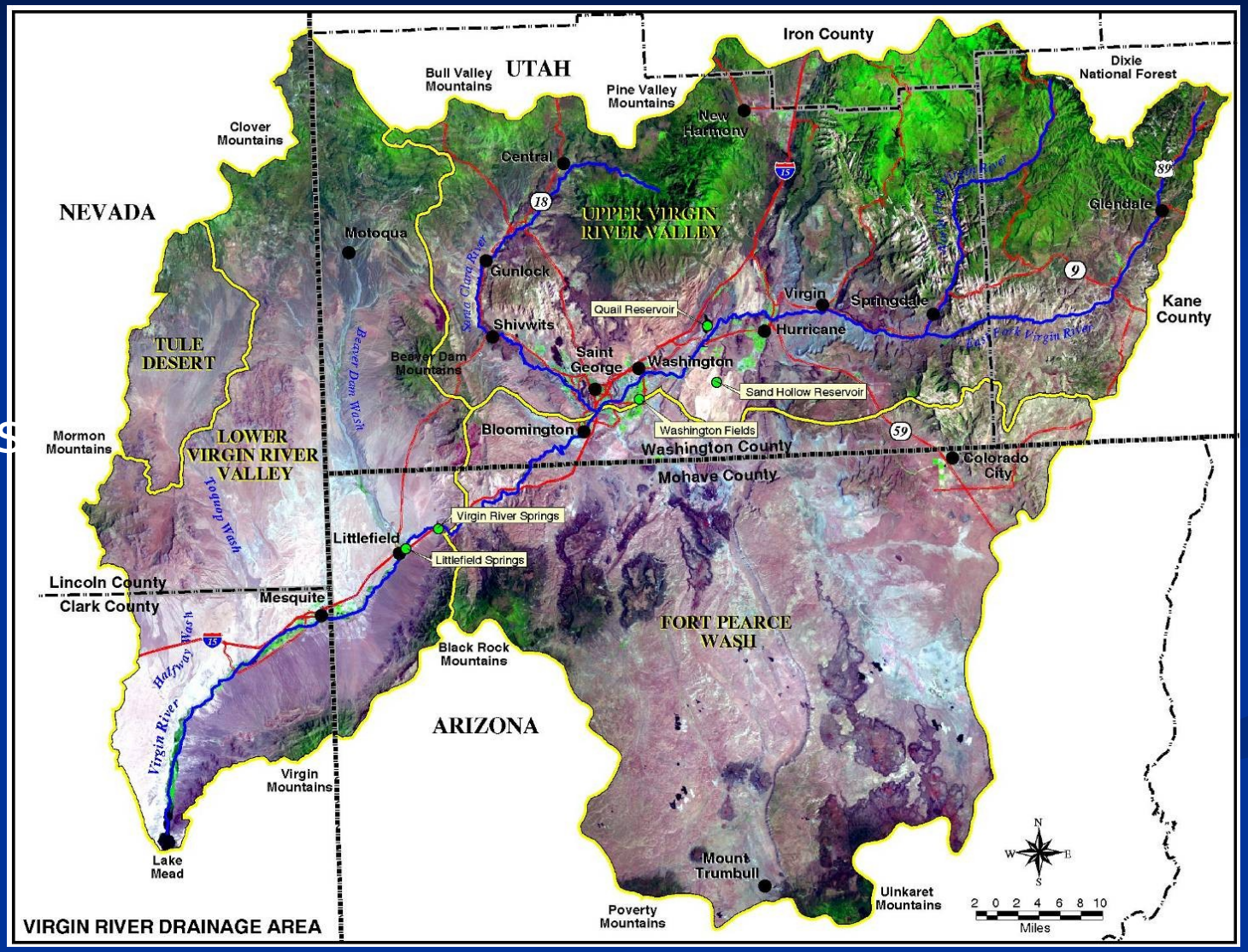
- ✓ 5,900 sq miles
- ✓ 3 States
- ✓ 6 Counties
- ✓ 67% Federal Lands



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Watershed Study Stakeholder Input

- Floodplain Management
- Land Use Planning
- Invasive Species
- Endangered Species
- Water Supply

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Desired Outcome

Create a strategy addressing common goals, reducing flood risk, compliant with the NFIP, consisting of various mitigation actions, organized in a cohesive framework, and with relative priorities and funding sources identified.

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Key Characteristics

- ✓ Comprehensive
- ✓ Watershed-based
- ✓ Coordinated
- ✓ Consensus-driven
- ✓ Non-structural

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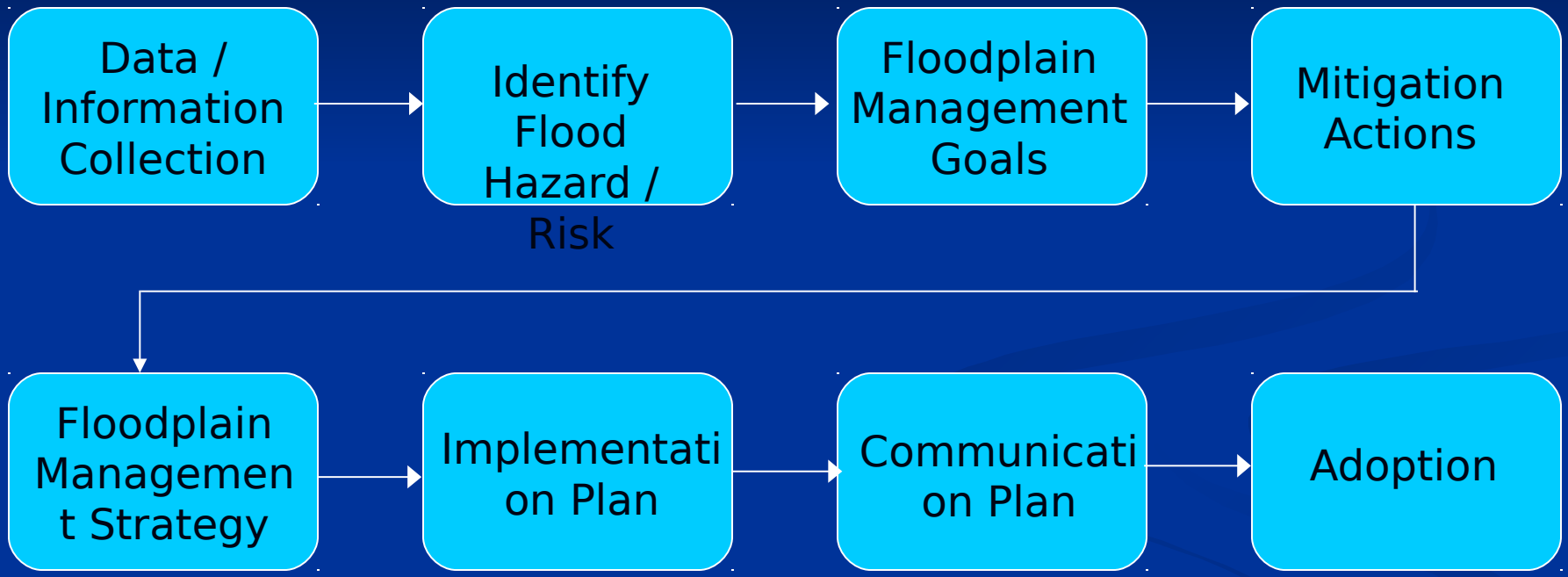
Work Plan



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Data / Information Collection

Stakeholder Interviews:
- ✓ Roles & Responsibilities
- ✓ Resources
- ✓ Regulations
- ✓ Capabilities
- ✓ Experience
- ✓ Communications
- ✓ Needs

Review & Summary:
- ✓ 2005 Flooding Data
- ✓ Post-Flood Reports
- ✓ Technical Data / Reports
- ✓ Digital Data

Flood Damages

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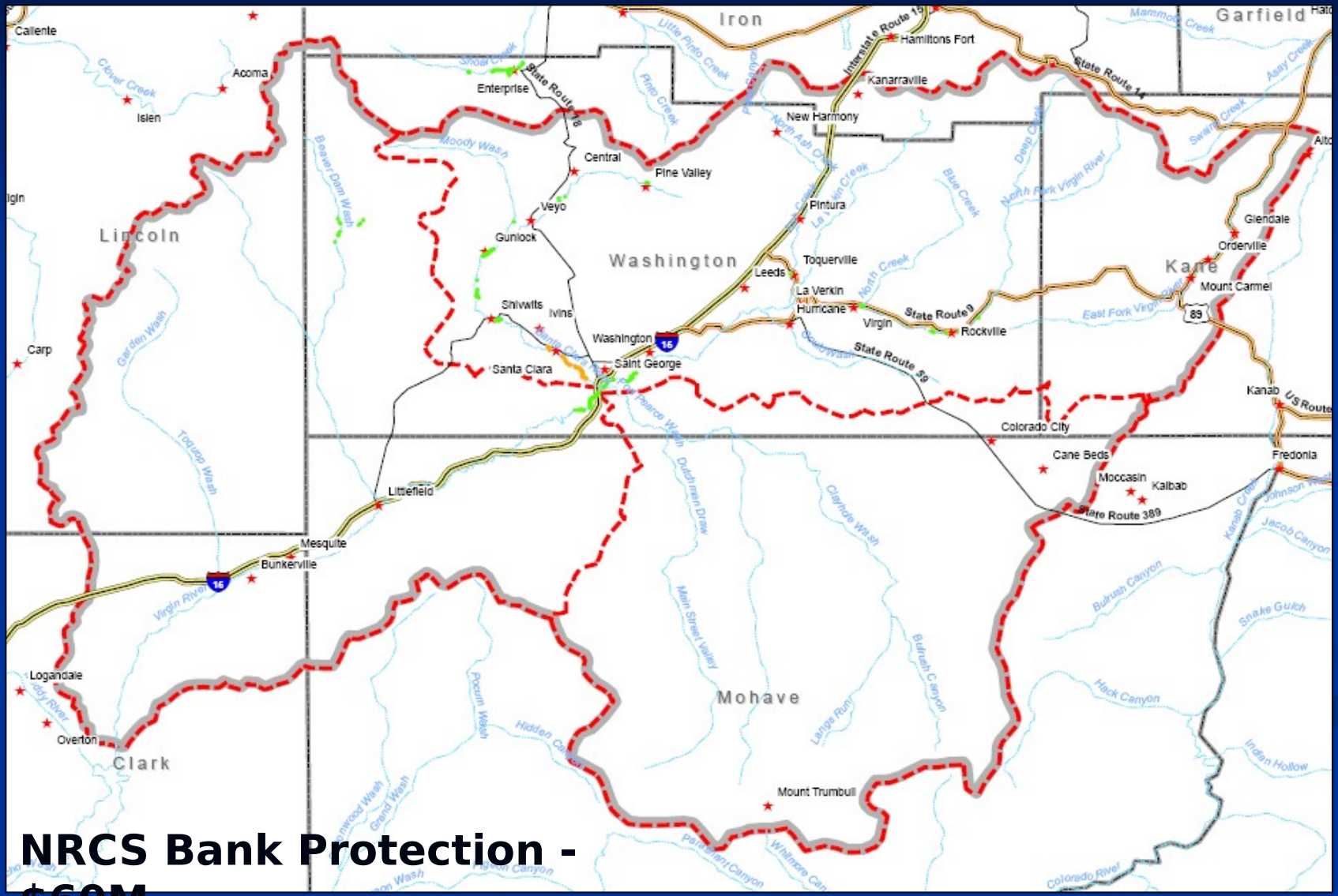

NRCS Bank Protection - $60M

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Identify Flood Hazard / Risk

What's the Problem?

- ✓ Inundation
- ✓ Erosion Hazard Areas / Delineations
- ✓ Sedimentation & Debris / Trends in Channel Change Maintenance
- ✓ Response to Urbanization, Encroachment, and Watershed Cover
- ✓ Response to Wildfire / Vegetation Changes
- ✓ Invasive Species Impacts (Tamarisk / Cheat Grass)
- ✓ Flood Warning / Flood Response

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What's the Solution? – Good Question!

- ✓ Identify Natural & Beneficial Functions of Floodplains
- ✓ Update or Improve Existing Knowledge / Conditions
- ✓ Facilitate / Enhance Multi-Jurisdictional Communication & Cooperation
- ✓ Address Interrelationship of Flooding, Erosion, & Sedimentation

Desired Outcome (Synthesis)

Evaluate Stakeholder Goals / Compatibility
Opportunities to **Collaborate**

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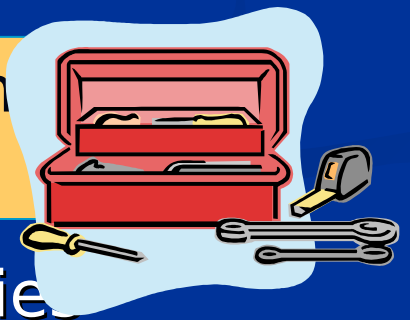
Implementation Plan

- ✓ **WHAT** Mitigation Actions
- ✓ **WHY** Interest / Benefit to FP Mgmt Goals
- ✓ **HOW** Funding & Assistance Program
  Resource Materials
- ✓ **WHEN** Short-, Mid-, Long-term Priorities
  Progress Milestone Identification
- ✓ **WHO** Participating Stakeholders
  Partner Resource Agencies



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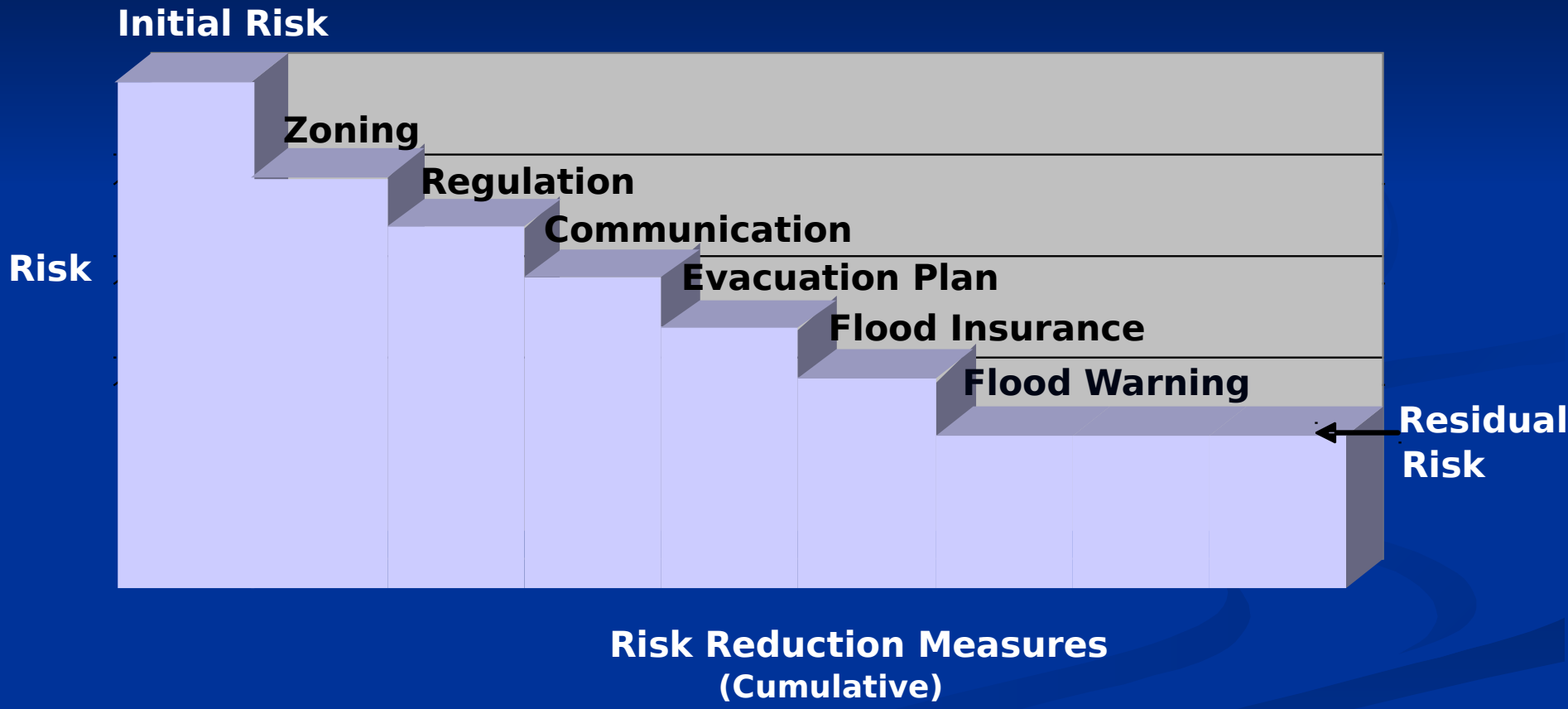

All stakeholders contribute to reducing risk!

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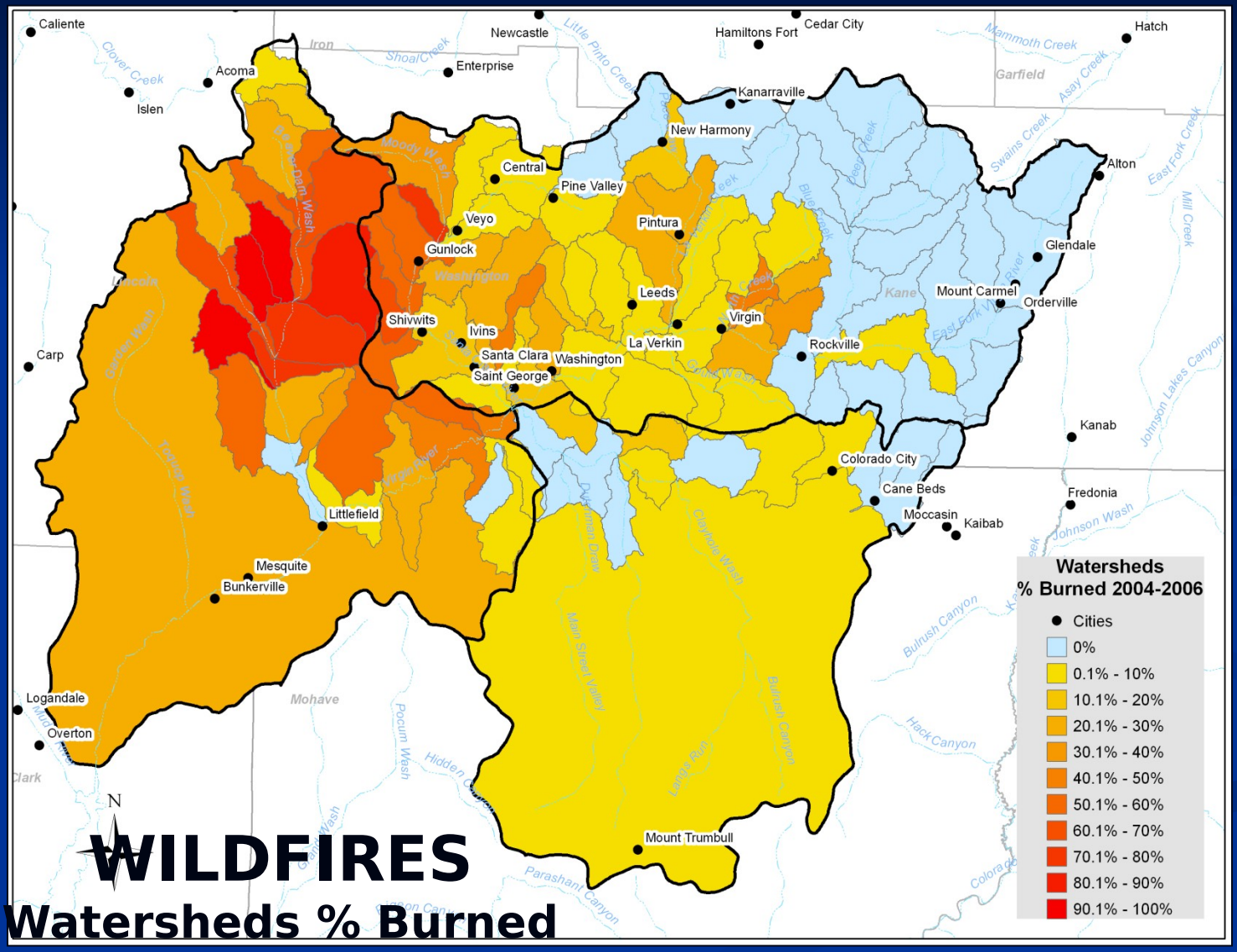

WILDFIRES

Watersheds % Burned

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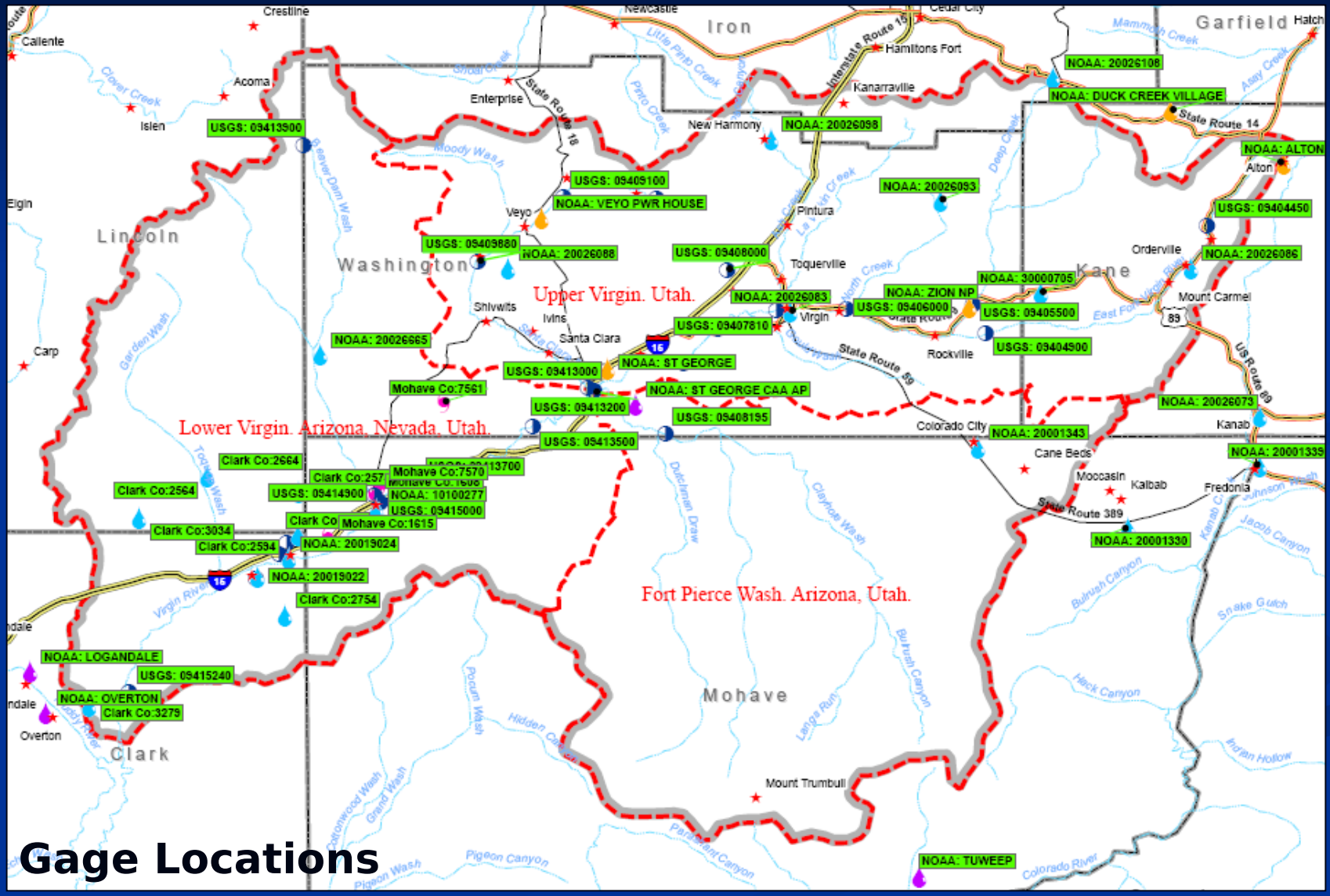

Gage Locations

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Do you think these residents know the **flood risk**?

Beaver Dam Wash, AZ

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Take Away Thoughts

- ✓ Collaboration needs a catalyst and leadership
- ✓ Levels of floodplain mgt. varied greatly
- ✓ Communication gaps
- ✓ Federal land ownership problematic
- ✓ Jurisdictional boundaries and missions
- ✓ Small efforts can have large benefits

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Thank You

http://www.thespectrum.com